

15 December 1966

DEVELOPMENT OBJECTIVES

ACUITY ADAPTERS FOR [ ] 10X EYEPieces

1. INTRODUCTION. These development objectives describe the requirements to be met in the design and fabrication of acuity adapters (Optthalmic corrective devices) for the [ ] Standard 10X eyepieces as currently used with the Zoom 70 stereoscope.

2. CONCEPT. A device is needed which will permit photo interpreters, who normally wear standard corrective eyeglasses, to remove them and still be able to properly utilize microstereoscopes. It appears that this can be done by adding the proper corrective opthalmic prescription to the stereoscope eyepieces themselves. There is some medical opinion which indicates that this would not only enable the P.I. to see better but would also serve to lessen overall eye fatigue.

3. REQUIREMENTS.

3.1. Configuration. The prototype holders for the corrective optics must clip or clamp onto the standard [ ] 10X eyepiece, as used with the Zoom 70 Stereoscope, and must be easily interchangeable from one eyepiece to another. The present color filter holder produced by [ ] is an example of a device which might be suitably modified for this particular application.

3.2. Lenses. Each set of two acuity adapters must have lenses ground to the prescriptions to be provided by the sponsor. The lenses shall be firmly and positively affixed to the holders to avoid the possibility of accidentally becoming separated from them. The optical performance of the lenses must equal or exceed that of a standard eye glass configurations of the same prescription.

3.3. Index Marks. Each acuity adapter must be individually marked L. (for Left) or R (for Right) as appropriate and have another mark to indicate the top of the eyepiece. In addition each set of acuity adapters must have matched serial numbers engraved upon them to permit easy identification and to prevent inadvertent separation of sets.

3.4. Carrying Case. Each acuity adapter set must be provided with a fitted carrying case to provide proper protection and storage when the adapters are not in use.

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3.6. General Design. The acuity adapter should be as light and compact as possible without being fragile.

3.8. A total of 5 sets of two adapters each shall be provided as part of this contract.

3.7. At the time of delivery of the adapters the contractor shall also provide 10 copies of simple Users Instructions.